

# UNITED STATES ENVIRONMENTAL PROTECTION AGENCY CINCINNATI PROCUREMENT OPERATIONS DIVISION CINCINNATI, OHIO 45268

SUBJECT:

Request for Task Order Proposal, Tracking Number PR-R3-18-00484

FROM:

Lawrence Edelmann Contracting Officer

TO:

Multiple Award Contract Holders under TSAWP II

Attached is request for task order proposal for the subject tracking number which is issued for competition for the project entitled, "Technical Support for West Virginia Ionic Toxicity TMDLs"

The government requests you prepare a proposal (cost and technical) for the task order. Request the proposals be submitted to edelmann.lawrence@epa.gov by 3:00PM ET on June 19, 2019. The technical proposal is limited to a maximum of ten (10) total pages. The cost proposal should include prime direct labor, contract approved indirect rates, subcontractor detail, ODCs, and fee. Subcontractor proposals may be submitted directly to the EPA. Proposals shall also include the required conflict of interest certification.

The following documents provided for this solicitation will become part of the Task Order Award:

- Performance Work Statement
- Task Order Clauses

Award of a Cost Plus Fixed Fee - Completion contract task order will result. The period of performance for this Task Order is anticipated to be October 1, 2019 to September 30, 2021. Please see attached technical evaluation criteria which will be used to evaluate the offer. Award will be made on a Best Value Tradeoff, where Technical Quality is more important than Cost.

Any questions should be directed to edelmann.lawrence@epa.gov within five days of issuance of this Solicitation.

Lawrence B. Edelmann Contracting Officer

Cc:

Danita Bowling, Contract Level COR Damon Highsmith, Alternate Contract Level COR Sandy Licis, Contracting Officer

#### LOCAL CLAUSE EPA-B-16-102 ESTIMATED COST AND FIXED FEE

- (a) The estimated cost of this contract is **TBD**
- (b) The fixed fee **TBD**
- (c) The total estimated cost and fixed fee is **TBD**

#### LOCAL CLAUSE EPA-F-12-101 PERIOD OF PERFORMANCE

The period of performance of this contract shall be from 10/1/2019 through 09/30/2021 inclusive of all required reports.

# **EPAAR 1552.237-72 KEY PERSONNEL. (APR 1984)**

(a) The Contractor shall assign to this contract the following key personnel:

**TMDL Modeler:** TBD

TMDL Endpoint Development Expert: TBD

**Stakeholder Facilitation Expert: TBD** 

- (b) During the first ninety (90) days of performance, the Contractor shall make no substitutions of key personnel unless the substitution is necessitated by illness, death, or termination of employment. The Contractor shall notify the Contracting Officer within 15 calendar days after the occurrence of any of these events and provide the information required by paragraph (c) of this clause. After the initial 90-day period, the Contractor shall submit the information required by paragraph (c) to the Contracting Officer at least 15 days prior to making any permanent substitutions.
- (c) The Contractor shall provide a detailed explanation of the circumstances necessitating the proposed substitutions, complete resumes for the proposed substitutes, and any additional information requested by the Contracting Officer. Proposed substitutes should have comparable qualifications to those of the persons being replaced. The Contracting Officer will notify the Contractor within 15 calendar days after receipt of all required information of the decision on substitutions. This clause will be modified to reflect any approved changes of key personnel.

#### LOCAL CLAUSE EPA-G-42-101 CONTRACT ADMINISTRATION REPRESENTATIVES

Task Order Contracting Officers Representatives (CORs)/Project Officers for this contract are as follows:

Task Order COR (TOCOR): Katie Flahive, flahive.katie@epa.gov PH 202-566-1206

Alternate Task Order COR (Alt TOCOR): Erika Larsen, <u>larsen.erika@epa.gov</u> PH 202-566-0048

#### Contracting Officials responsible for administering this contract are as follows:

Contracting Officer: Lawrence Edelmann, US EPA. Cincinnati Acquisition Division, 26 W MLK Dr. MS W136A, Cincinnati, Ohio 45268 <a href="mailto:edelmann.lawrence@epa.gov">edelmann.lawrence@epa.gov</a>

# PERFORMANCE WORK STATEMENT TSAWP MULTIPLE AWARD CONTRACT TASK ORDER PR-R3-18-00484

# A. TITLE: Technical Support for West Virginia Ionic Toxicity TMDLs

**Task Order Contracting Officer Representative (TOCOR)** 

Irene Shandruk
<a href="mailto:shandruk.irene@epa.gov">shandruk.irene@epa.gov</a>
215-814-2166

#### **Alternate TOCOR**

Cheryl Atkinson atkinson.cheryl@epa.gov 215-814-3392

**Period of Performance** 10/01/2019 to 09/30/2021

#### **B. OBJECTIVES AND BACKGROUND**

# **Objectives**

The purpose of this Performance Work Statement (PWS) is to support Total Maximum Daily Loads (TMDL) development by the West Virginia Department of Environmental Protection (WVDEP) for West Virginia waterbodies where ionic toxicity has been identified as a contributing cause of biological impairment. Specifically, an appropriate and scientifically defensible TMDL endpoint, or multiple endpoint options, will be developed from data and technical analyses. Stakeholder engagement and model development to support the ionic toxicity TMDL development are also needed. A pilot ionic toxicity TMDL model will be developed for the Lower Guyandotte River Watershed.

#### **Background on West Virginia Ionic Toxicity TMDLs**

To establish a TMDL for waterbodies identified as biologically impaired on West Virginia's Section 303(d) list, WVDEP identifies the cause of the biological impairment, *i.e.*, the type of pollutant that will be allocated in the TMDL(s) to address the biological impairment, through a stressor identification procedure completed during the TMDL development phase. In the course of working on previous TMDLs, WVDEP identified certain waters as biologically impaired due to ionic toxicity. Ionic toxicity results from the presence of excessive amounts of dissolved solids (e.g., mineral salts) in a waterbody and can cause biologic impairment by adversely impacting aquatic life. While WVDEP has historically had sufficient information regarding instream ionic toxicity levels and their effects on benthic macroinvertebrates to identify ionic toxicity as a cause of biological impairment in these waters, WVDEP lacked sufficient information about which particular dissolved solid(s) (e.g. sulfate, bicarbonate, magnesium, chloride, potassium, etc.)

caused the ionic stress, and their associated impairment thresholds and their sources, to establish a defensible TMDL.

In the fall of 2010, EPA and WVDEP began a project to develop a pilot TMDL for ionic toxicity in streams in the Upper Kanawha Watershed. EPA and WVDEP collaborated on workgroups focused on TMDL planning, endpoint development, model development, and treatment technology. During the pilot project, a TMDL endpoint was proposed for specific conductivity and a model was developed. WVDEP ended participation in the pilot project in April 2012, citing state legislation that required the development of new assessment methodology to determine biological impairment. Since that time, WVDEP has developed hundreds of pollutant TMDLs that address biological impairment caused by stressors other than ionic toxicity.

EPA and WVDEP have acknowledged the need to show progress in developing ionic toxicity TMDLs. EPA and WVDEP need contractor support for determining ionic toxicity TMDL endpoint(s), stakeholder engagement and model development. EPA and WVDEP are interested in developing ionic toxicity modeling tools in a pilot watershed where TMDL development is currently occuring. As part of its Watershed Management Framework approach to TMDL development, WVDEP is developing TMDLs in the Lower Guyandotte River Watershed for other pollutants (fecal coliform bacteria, total iron and selenium) with anticipated completion by February 2021. Potential waters from the Lower Guyandotte River Watershed to be included in pilot model development are included in Attachment 1.

#### C. TASKS

The contractor shall provide support for the below tasks. Written technical direction shall be utilized to provide further detail on specific work included in the PWS, provide guidance, or approve or comment on deliverables. The Task Order Contracting Officer Representative (TOCOR), the Alternate TOCOR (if the TOCOR is on leave or travel), and the Contracting Officer are the only individuals authorized to issue technical direction. The contractor shall anticipate working with the TOCOR, staff leads from EPA Water Protection Division (WPD) and WVDEP to furnish the requested technical assistance. **However, only the TOCOR may issue written technical direction.** 

### Task 1: Kickoff Meeting, Reporting, and Communication

The contractor shall participate in a Kickoff Meeting with the TOCOR either in person or via conference call to discuss the following: points of contact, roles and responsibilities, timelines, the schedule of benchmarks, milestones and deliverables, establish dates and times for monthly calls, monthly technical progress reports, and general Task Order administrative information. The technical progress reports shall include status updates of all of the tasks of this PWS.

The TOCOR will coordinate and set-up monthly working calls between EPA staff and the contractor's technical lead to discuss the status and progress of the work under this Task Order. The contractor shall participate in these monthly calls. The frequency of the monthly conference calls may be modified based on project status at the request of the contractor and only as approved by EPA.

The contractor shall notify the TOCOR of any problems, delays or questions as soon as they arise, including immediate written notification of any Task Order delays. The contractor shall provide a written monthly status report in accordance with contract requirements which shall be used for invoice review purposes. All reporting shall be provided in accordance with the PWS Sections E and F.

In general, written materials including meeting summaries shall be furnished by the contractor within five business days after request in draft form for the TOCOR to review; then a final written deliverable would be expected within five business days after receipt of written technical direction from the TOCOR, including the TOCOR's comments and edits to the draft deliverable.

Task 1 Deliverables: Meeting summaries following conference calls

#### Task 2: West Virginia Ionic Toxicity TMDL Support

# Task 2.1: Facilitation Support for WV Ionic Toxicity TMDL Endpoint Technical Advisory Committee

The contractor will organize six to nine monthly conference calls and/or webinars of the WV Ionic Toxicity TMDL Endpoint Technical Advisory Committee (TAC) and attend up to two inperson meetings to discuss TMDL endpoints and approach for model development. The contractor will work closely with the TAC and prepare agendas and meeting minutes. The frequency of the monthly conference calls may be modified based on the project status at the request of the contractor and only as approved by EPA. Any in-person meeting will be held at the WVDEP Headquarters in Charleston, WV.

Task 2.1 Deliverables: Agendas, meeting minutes, and correspondence from committee

### Task 2.2: Technical Support for Ionic Toxicity TMDL Endpoint Development

Under a previous Task Order, options for proposed ionic toxicity TMDL endpoints were prepared through data and technical analysis<sup>1</sup>. The proposed TMDL endpoints and rationale will serve as a starting point. The contractor shall utilize water quality and biological data provided by EPA and WVDEP to perform additional technical and statistical analyses to develop an appropriate, scientifically defensible, and specific numeric TMDL endpoint, or multiple numeric endpoint options, to address biological impairments caused by ionic toxicity. To properly characterize ionic strength, general measures of electrical conductivity, such as specific conductivity and total dissolved solids (TDS), as well as individual ions (e.g. sulfate, bicarbonate, magnesium, chloride, potassium, etc.) should be analyzed to identify which one ion or combination of ions contribute(s) significantly to biological impairment. The contractor will participate in monthly conference calls of the WV Ionic Toxicity TMDL Endpoint TAC and attend up to two in-person meetings to discuss TMDL endpoints and approach for model development. Any in-person meeting will be held at the WVDEP Headquarters in Charleston,

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<sup>&</sup>lt;sup>1</sup> Previous Task Order ionic toxicity endpoint deliverables can be made available during the bidding process, as requested.

WV. When requested by the TOCOR, the contractor will prepare TAC meeting presentations and/or materials on technical aspects of the TMDL endpoint analyses and model development approach and be prepared to answer questions. The contractor shall prepare a draft and a final version of the Ionic Toxicity TMDL Endpoint document providing a detailed overview of the data and technical analyses used to identify water quality endpoints for ionic toxicity.

<u>Task 2.2 Deliverables</u>: Ionic Toxicity TMDL Endpoint document and technical presentations and/or materials for the Ionic Toxicity TMDL Endpoint TAC monthly calls.

# Task 2.3: Ionic Toxicity TMDL Model Selection

The contractor will work with EPA and WVDEP to determine an appropriate model to address waters impaired by ionic toxicity. EPA will share previous work products, including a TMDL modeling development using WVDEP's Mining Data Analysis System (MDAS)<sup>2</sup> as a starting place for these deliberations. Recommendations should consider the availability of data and existing model set up for previous or current TMDL project areas. The contractor may make new approach recommendations based on their modeling expertise. Using literature reviews or other technical analyses, the contractor will characterize potential general sources of ionic toxicity including mining, wastewater treatment plants, straight pipes, etc. to incorporate into the modeling framework. The characterization of hydrologic alterations due to mining and potential similarities to glacial till hydrology should be explored. The contractor will provide model recommendations based on the complexity of the pollutant loading dynamics, sources, data availability, etc. Ionic toxicity model recommendations should be compatible with WVDEP's current modeling platform so that future ionic toxicity modeling can make use of hydrology calibrations already completed for previous TMDL project areas. The contractor will prepare a memo summarizing the model selection, which will include model programs, watershed boundaries, modeling timeframe, as well as other elements the contractor deems appropriate.

Task 2.3 Deliverables: Model Selection Memo

# Task 2.4: Ionic Toxicity TMDL Modeling QAPP Development

The contractor shall prepare a modeling QAPP taking into consideration EPA *Guidance on QA Project Plans for Modeling* (EPA/240/R-02/007) (EPA QA/G – 5M)<sup>3</sup> and EPA Region 10's *Guidance for Quality Assurance Project Plans for Water Quality Modeling Projects* (EPA 910-R-16-007) (attached). The contractor will work with EPA and WVDEP to determine which elements of the QAPP should be included.

<u>Task 2.4 Deliverables</u> – Ionic Toxicity Modeling QAPP

<sup>2</sup> MDAS was developed specifically for TMDL application in West Virginia to facilitate large scale, data intensive watershed modeling applications. MDAS is based upon Hydrologic Simulation Program—FORTRAN (HSPF) but has no inherent limitations in terms of modeling size or upper limit of model operations. The dynamic watershed model component within MDAS is the Loading Simulation Program—C++ (LSPC) (Shen, et al., 2002). The model simulates nonpoint source flow and pollutant loading as well as instream flow and pollutant transport and is capable of representing time-variable point source contributions.

<sup>&</sup>lt;sup>3</sup> https://www.epa.gov/quality/guidance-quality-assurance-project-plans-modeling-epa-qag-5m

# Task 2.5: Ionic Toxicity TMDL Model Development in Pilot Watershed

Upon approval of the modeling QAPP, the contractor shall develop the pilot model for the Lower Guyandotte River Watershed in accordance with the QAPP. Potential waters to be included in pilot model development are included in Attachment 1. WVDEP is currently working in the Lower Guyandotte River Watershed to develop TMDLs for other pollutants (fecal coliform bacteria, total iron, and selenium) and will have completed pre-TMDL monitoring, pollutant source tracking, model land use, basic hydrology calibration and continuous discharge representation by October 2020. The contractor shall incorporate this recent data and model information supplied by WVDEP into the pilot ionic toxicity model for the Lower Guyandotte River Watershed. The contractor shall develop a calibrated and validated model, TMDL allocation scenarios, and a a draft and a final version of the modeling report. Water quality calibration is contingent upon final ionic toxicity TMDL endpoint(s) to be determined in Task 2.2 above. The contractor will attend up to two in-person meetings to discuss the pilot TMDL model development. Any in-person meeting will be held at the WVDEP Headquarters in Charleston, WV. The modeling report shall be broken up into milestones in order to allow for review and comment on the model development. The first milestone will include model background, such as model set-up and watershed characteristics. The second milestone will characterize the calibrated and validated model, including graphical representations of model output. The third milestone will present a minimum of two TMDL allocation scenarios. This milestone will include graphical representations of endpoint/water quality standard attainment. The fourth milestone will include discussion on TMDL requirements, including critical conditions, seasonal variability, margin of safety, and conservative assumptions. Additionally, the contractor will share model input and output files upon completion of the modeling report. Model files should include model input, model output, for existing conditions and TMDL scenarios along with an index (or another appropriate document) that identifies each file included. All relevant GIS files should also be delivered at this time. The contractor will also provide in-person training to WVDEP and EPA on how to use the modeling tools. Training will occur at the WVDEP Headquarters in Charleston, WV.

### Task 2.5 Deliverables:

Deliverable 2.5.1: Ionic Toxicity Modeling Report

Deliverable 2.5.1.1: Model Background

Deliverable 2.5.1.2: Calibrated and Validated Model

Deliverable 2.5.1.3: TMDL Allocation Scenarios

Deliverable 2.5.1.4: TMDL Requirements

Deliverable 2.5.2: Model and GIS Files

#### D. SCHEDULE OF BENCHMARKS AND DELIVERABLES

As a general rule, upon receipt of a draft deliverable, EPA will have three weeks to collate internal and external comments and return to the contractor. The contractor will then have an additional one week to make changes, which will be reviewed by EPA. EPA will have one week to indicate any necessary final adjustments. If final adjustments are needed, the contractor will have three additional business days to finalize the document.

The deliverables and anticipated completion dates are as follows:

Task	Deliverables	Task Completion Timeframe	Task Finalization
Task 1 – Initiate	Deliverable 1: Meeting	Within 7 days of contract	1 week after draft
project kickoff	summary	award	submittal
conference call			
Task 2.1 – Facilitation	Deliverable 2.1:	Entire task within 11 months	Within 1 week
Support for WV Ionic	Agendas, meeting	of completion of Task 1.	after draft
Toxicity TMDL	minutes and	Monthly calls for 6-9 months	submittal of
Endpoint TAC	correspondence	to start within 2 months of	agendas and
		completion of Task 1. Agendas due 1 week ahead of	meeting minutes
		meeting. Meeting minutes due	
		1 week after meeting.	
Task 2.2 – Technical	Deliverable 2.2: Ionic	Within 12 months of	Within 6 weeks
Support for Ionic	Toxicity TMDL	completion of Task 1.	after draft
Toxicity TMDL	Endpoint document and	Technical presentations should	submittal
Endpoint	technical presentations	be submitted one week ahead	
Development	for TAC	of meetings.	
Task 2.3 – Ionic	Deliverable 2.3: Ionic	Within 2 months of completion	Within 6 weeks
Toxicity Model	Toxicity Model	of Task 1	after draft
Selection	Selection Memo		submittal
Task 2.4 – Ionic	Deliverable 2.4: Ionic	Draft QAPP for EPA QA team	Upon review and
Toxicity Modeling	Toxicity Modeling	review within 3 months of	approval by EPA
QAPP Development	QAPP	completion of Task 2.3. Final	QA team
		approved QAPP within 6	
		months of Draft QAPP submittal.	
Task 2.5 – Ionic	Deliverable 2.5.1: Ionic	Broken up into milestones, see	Upon Completion
Toxicity Model	Toxicity Modeling	below for timeframe	of deliverable
Development	Report		2.5.1.4
1	Deliverable 2.5.1.1:	Research for Model	Within 6 weeks
	Ionic Toxicity Model	Background within 6 months	after draft
	Background	of Task 2.4 Draft QAPP.	submittal
	_	Model Background writeup	
		within 1 month of completion	
		of Task 2.4 (Final Approved	
		QAPP).	
	Deliverable 2.5.1.2:	Within 4 months of completion	Within 6 weeks
	Calibrated and	of Task 2.4 (Final Approved	after draft
	Validated Ionic	QAPP) and Task 2.2 (Final	submittal
	Toxicity Model	Endpoint Document).	W/:41.: (1
	Deliverable 2.5.1.3:	Within 2 months of finalizing Deliverable 2.5.1.2	Within 6 weeks after draft
	Ionic Toxicity TMDL Allocation Scenarios	Deliverable 2.3.1.2	submittal
	Anocation Scenarios		อนบบบนสา

Task	Deliverables	Task Completion Timeframe	Task Finalization
	Deliverable 2.5.1.4:	Within 1 month of finalizing	Within 6 weeks
	Ionic Toxicity TMDL	Deliverable 2.5.1.3	after draft
	Requirements		submittal
	Deliverable 2.5.2: Ionic	Within 1 month of completion	Within 2 weeks
	Toxicity Model and	of deliverable 2.5.1	after draft
	GIS Files		submittal

#### E. REPORTING

All documentation and reporting under this Task Order shall be in compliance with contract requirements.

#### F. DELIVERABLES AND GENERAL PERFORMANCE

The contractor shall participate in meetings and conference calls arranged by the EPA TOCOR. The contractor shall, when requested by the TOCOR, provide supporting documentation when EPA is reviewing draft deliverables to facilitate EPA review and approval of the contractor's work. Documentation shall include the electronic files and detailed, written explanation of all steps and decisions. The contractor is expected to comply with this request when it is received from the TOCOR regardless of whether such a request is described in the individual tasks of this PWS. The contractor is expected to furnish this information in such a manner that no proprietary software will be needed for EPA to read, interpret, replicate or model any work product of this agreement, unless otherwise noted in this PWS or by written permission of the EPA TOCOR. The objective is that anyone with the appropriate skill level can use the information produced under this Task Order to check or duplicate the contractor's work for replication and/or verification. With this understanding of how this Task Order's data will be used, any elements essential to successfully replicating analysis shall be provided to EPA in a commonly-used format.

The contractor shall provide to the TOCOR written evidence of the contractor's scientific/technical and editorial review on any Task Order **draft** product before submission to the EPA TOCOR for review. This process does not need to be performed by an independent peer reviewer. It is expected that all editorial review comments shall be addressed before deliverables are furnished to the EPA TOCOR for review (in the case of draft deliverables) or acceptance (in the case of final deliverables); and that questions raised by scientific/ technical review will be either addressed or discussed with the EPA TOCOR prior to the contractor furnishing draft deliverables.

All deliverables (draft and final) to EPA shall be furnished in an electronic format that EPA can support (see TSAWP Contract PWS Section 4.0 Deliverables). All final deliverables shall be prepared according to EPA publication guidelines and shall be compliant with Section 508 of the Americans with Disabilities Act.

All draft and final deliverables from the contractor under this PWS are potentially subject to Freedom of Information Act requests.

All submittals to EPA shall be formatted as described below:

- Any written reports, summaries or analysis documents shall be in electronic Microsoft Word©.
- Any and all spreadsheets, raw data, coding and modeling work (including all model runs with essential data to replicate model runs) shall be in electronic Microsoft Excel© or XML formats.

Appropriate electronic format that is supported by EPA and printing of all GIS data layers, maps, photos, bench sheets and other written material not easily printed or saved in the above formats will be discussed and a format agreed upon with the EPA TOCOR prior to submittal by the contractor.

#### G. ANTICIPATED TRAVEL

All travel under this Task Order shall be in compliance with contract requirements and only according to specific written technical direction from the TOCOR. The vast majority of interactions will be conducted through conference calls. When in-person meetings are required, the length of the meetings and the amount of contract personnel needed for each trip will be provided to the contractor through written technical direction from the TOCOR. For planning purposes, the contractor shall assume seven overnight trips (covering two days and one night each, to Charleston, West Virginia for two people over the period of performance.

#### H. CONTRACTOR IDENTIFICATION

Contractor personnel shall always identify themselves as Contractor employees by name and organization and physically display that information through an identification badge. Contractor personnel are prohibited from acting as the Agency's official representative.

The Contractor shall refer any questions relating to the interpretation of EPA policy, guidance, or regulation to the EPA TOCOR.

### I. CONFERENCE/MEETING GUIDELINES AND LIMITATIONS:

The contractor shall immediately notify the EPA Contracting Officer, COR and TOPO of any anticipated event involving support for a meeting, conference, workshop, symposium, retreat, seminar or training that may potentially incur \$20,000 or more in cost during performance. Conference expenses are all direct and indirect costs paid by the government and include any associated authorized travel and per diem expenses, room charges for official business, audiovisual use, light refreshments, registration fees, ground transportation and other expenses as defined by the Federal Travel Regulations. All outlays for conference preparation should be included, but the federal employee time for conference preparation should not be included. After notifying EPA of the potential to reach this threshold, the Contractor shall not proceed with the task(s) until authorized to do so by the Contracting Officer.

# **J. QUALITY ASSURANCE SURVEILLANCE PLAN**: Per contract requirements as supplemented herein:

EPA anticipates that the contractor's work will be judged "satisfactory" according to the QASP if the TOCOR's edits to deliverables are no more than ten percent (10%) of the content of any draft deliverable, or less than two percent (2%) of any final deliverable. In addition, EPA anticipates that the Contractor's work will be judged "satisfactory" according to the QASP if less than ten percent (10%) of the pages of written final deliverables contain the TOCOR's edits for such things as grammar, punctuation and format. The EPA TOCOR can upon request furnish a copy of the EPA correspondence manual for the contractor's use.

# K. VALIDATION OF SECTION 508 COMPLIANCE OF TASK ORDER DELIVERABLES

The Contractor shall support the TOCOR in conducting a "Final Deliverable Validation" to ensure compliance with Section 508 and the Federal Acquisition Regulations (FAR) related to "electronic and information technology (EIT) deliverables". The Contractor shall furnish certification, in writing, to the TOCOR that the Contractor has complied with EPAAR Clause 1552.211-79 "Compliance with EPA Policies for Information Resources Management", including the requirement that all electronic and information technology (EIT) deliverables be Section 508 compliant in accordance with the policies referenced at <a href="http://www.epa.gov/accessibility/">http://www.epa.gov/accessibility/</a>.

#### L.TECHNICAL DIRECTION

The Contract level COR or an authorized individual is permitted to provide technical direction. technical direction must be within the statement of work of the contract and includes: (1) Direction to the contractor which assists the contractor in accomplishing the Performance Work Statement, (2) Comments on and approval of reports or other deliverables. technical direction will be issued in writing or confirmed in writing within five (5) calendar days after verbal issuance. One copy of the technical direction memorandum will be forwarded to the Contracting Officer and the Contract Level Contracting Officer Representative.

#### M. REFERENCES

# Links to background documents relevant to this PWS:

U.S. EPA. 2011. A Field-Based Aquatic Life Benchmark for Conductivity in Central Appalachian Streams. Office of Research and Development, National Center for Environmental Assessment, Washington, DC. EPA/600/R-10/023F. https://cfpub.epa.gov/ncea/risk/recordisplay.cfm?deid=233809

U.S. EPA. 2011. The Effects of Mountaintop Mines and Valley Fills on Aquatic Ecosystems of the Central Appalachian Coalfields (2011 Final). U.S. Environmental Protection Agency, Washington, DC, EPA/600/R-09/138F, 2011.

https://cfpub.epa.gov/ncea/risk/recordisplay.cfm?deid=225743

U.S. EPA. 2016. Draft Field-Based Methods for Developing Aquatic Life Criteria for Specific Conductivity. Office of Water, Washington, DC. EPA-822-R-07-010. <a href="https://www.epa.gov/wqc/draft-field-based-methods-developing-aquatic-life-criteria-specific-conductivity">https://www.epa.gov/wqc/draft-field-based-methods-developing-aquatic-life-criteria-specific-conductivity</a>

# N. GOVERNMENT FURNISHED INFORMATION

The following information can be provided to the contractors by request:

• Contract Task Order Deliverables for 2010 West Virginia Ionic Toxicity Pilot TMDL and Endpoint Development

Attachment 1 West Virginia Waters in the Lower Guyandotte River Watershed for which WVDEP will Submit TMDLs to Address Biological Impairment

TMDL Watershed	Stream Name	WV Code
Lower Guyandotte	Guyandotte River (Lower)	WVOG-lo
Lower Guyandotte	Parsner Creek	WVOGM-38
Lower Guyandotte	Mill Creek	WVOG-59
Lower Guyandotte	Tanyard Branch	WVOGM-1.5
Lower Guyandotte	Little Cabell Creek	WVOGM-3
Lower Guyandotte	Big Cabell Creek	WVOGM-4
Lower Guyandotte	Fudges Creek	WVOGM-6
Lower Guyandotte	Wire Branch	WVOGM-6-0.5A
Lower Guyandotte	Mill Creek	WVOGM-8
Lower Guyandotte	Right Fork/Mill Creek	WVOGM-8-C
Lower Guyandotte	Johns Branch	WVOGM-11
Lower Guyandotte	Indian Fork	WVOGM-12
Lower Guyandotte	Charley Creek	WVOGM-14
Lower Guyandotte	Trace Creek	WVOGM-19
Lower Guyandotte	Trace Fork	WVOG-49-D
Lower Guyandotte	Coon Creek	WVOGM-20-A
Lower Guyandotte	Straight Fork	WVOGM-22-A
Lower Guyandotte	Meadow Branch	WVOGM-25-A
Lower Guyandotte	Straight Fork	WVOGM-25-H
Lower Guyandotte	Valley Fork	WVOGM-25-H-1
Lower Guyandotte	Sugartree Fork	WVOGM-25-I
Lower Guyandotte	Big Creek	WVOGM-35
Lower Guyandotte	Left Fork/Mud River	WVOGM-39
Lower Guyandotte	Stinson Branch	WVOGM-39-E
Lower Guyandotte	Upton Branch	WVOGM-40.3
Lower Guyandotte	Ballard Fork	WVOGM-49
Lower Guyandotte	Davis Creek	WVOG-3
Lower Guyandotte	Edens Branch	WVOG-3-0.5A
Lower Guyandotte	Smith Creek	WVOG-11
Lower Guyandotte	Cavill Creek	WVOG-12
Lower Guyandotte	Madison Creek	WVOG-17
Lower Guyandotte	Twomile Creek	WVOG-24
Lower Guyandotte	Fourmile Creek	WVOG-27
Lower Guyandotte	Ninemile Creek	WVOG-31
Lower Guyandotte	Tenmile Creek	WVOG-32
Lower Guyandotte	Lick Branch	WVOG-34-A
Lower Guyandotte	Aarons Creek	WVOG-35
Lower Guyandotte	Laurel Creek	WVOG-38-D

TMDL Watershed	Stream Name	WV Code
Lower Guyandotte	Dry Run	WVOG-41
Lower Guyandotte	Short Bend Fork	WVOG-42-A
Lower Guyandotte	Laurel Fork	WVOG-42-C
Lower Guyandotte	West Fork/Big Harts Creek	WVOG-44-A
Lower Guyandotte	Smokehouse Fork	WVOG-44-E
Lower Guyandotte	Buck Fork	WVOG-44-G
Lower Guyandotte	Vickers Branch	WVOG-49-C
Lower Guyandotte	UNT/Big Creek RM 3.28	WVOG-49-C.1
Lower Guyandotte	Trace Fork	WVOGM-20
Lower Guyandotte	Hurricane Branch	WVOG-49-D-1
Lower Guyandotte	Garrett Fork	WVOG-49-E
Lower Guyandotte	Perrys Branch	WVOG-49-E-1
Lower Guyandotte	South Fork/Crawley Creek	WVOG-51-G.5
Lower Guyandotte	Fowler Branch	WVOG-51.5

# TASK ORDER SOLICITATION TECHNICAL EVALUATION Task Order PR-R3-18-00484

**TITLE:** Technical Support for West Virginia Ionic Toxicity TMDLs

**EVALUATION CRITERIA:** Contractors shall limit their responses to **10 pages or less**, using their discretion on which criteria to place emphasis. If Key Personnel is identified as a criterion, resumes are limited to two pages or less and do not count towards the page limitation. The transmittal letter, cover pages, and dividers are also excluded from the page limitation. Any information on pages beyond the page number limitation will not be considered or evaluated. The technical proposal shall be submitted using no less than ten (10) point font size and no less than a 3/4" margin on all sides of the page. The term "Offeror" as used in this document shall mean the prime contractor and any proposed subcontractors or consultants.

Proposals will be evaluated on the criteria listed below by the project Technical Evaluation Team and will be assigned a score from 0-3 using the scale listed below. Award will be based on Best Value Analysis where Technical Quality is more important than Cost/Price.

#### **RATING SCALE**

The following rating scale will be used in scoring proposals:

Unacceptable = 0. Criteria are not addressed.

*Poor* = 1. The proposal fails to adequately address critical requirements of the Performance Work Statement (PWS) and technical evaluation criteria; may satisfy some requirements, but not others; reflects major weaknesses or deficiencies. Could not meet requirements without fundamental changes involving a total re-write or redirection of the offer.

Satisfactory = 2. Proposal addresses and meets most requirements of the PWS and technical evaluation criteria, with some correctable and minor weaknesses and/or deficiencies noted. Is generally considered to demonstrate at least minimum requisite experience, qualifications and performance capabilities. Some discussions may be required to address and correct weaknesses or deficiencies.

Superior = 3. The proposal clearly addresses and exceeds requirements of the PWS and technical evaluation criteria with no weaknesses or deficiencies, or very minor, correctable weaknesses or deficiencies noted.

Each point is worth 1/3 of the weight assigned to an individual criterion.

The following criteria and weights will be used in the technical evaluation of Task Order proposals:

#### **CRITERIA**

# Corporate Technical Experience: TMDL model development for waterbodies where ionic toxicity or other pollutant has been identified as a contributing cause of biological impairment. (15 points)

This criterion evaluates demonstrated corporate experience in fulfilling the technical requirements of contracts/subcontracts/projects similar in technical scope and complexity to this solicitation. Of particular interest is the contractor's technical experience conducting work under Tasks 2.1-2.5 of the PWS. In documenting corporate technical experience, please address the level of corporate understanding of, involvement, and past work experiences similar to developing total maximum daily loads (TMDLs) to address biological impairments caused by ionic toxicity or other pollutants. Provide specific examples which illustrate a detailed working knowledge and understanding of the TMDLs, models, sources of biological impairments due to ionic toxicity or other pollutants, TMDL endpoint development, and stakeholder facilitation related to the tasks within the PWS. If developed for states, the TMDLs must be approved by EPA. If established for EPA, the TMDLs must have met all regulatory requirements. Provide specific examples that demonstrate timely execution of project requirements on specific deadlines.

In describing corporate experience, include: (a) a description of the contract/task order/project, (b) the sponsor, (c) the dates of performance, (d) the specific role the contractor assumed in the overall performance (e.g., prime, subcontractor or consultant), (e) relevance of the experience to the requirements in the PWS of this Task Order, and any other information that would serve to establish the contractor's demonstrated corporate technical experience in fulfilling the technical requirements of contracts/subcontracts/projects similar in technical scope and complexity to this task order.

# Technical Approach: TMDL endpoint development and TMDL model development approaches to address biological impairments caused by ionic toxicity (50 points)

This criterion will evaluate the contractor's technical approach for the development and performance of the Tasks 2.2-2.5 requested in the PWS. In documenting the technical approach, please address plans on how to develop an appropriate and scientifically defensible numeric endpoint(s) to address biological impairment caused by ionic toxicity or other pollutants, select an appropriate model for ionic toxicity TMDL development, develop an approvable model quality assurance project plan (QAPP), and develop an ionic toxicity TMDL model in a pilot watershed as requested in the PWS. Finally, the contractor should describe the approach to engage the wide variety and diversity of involved partners and stakeholders in carrying out each task and as required specifically in Task 2.1. Provide examples of how effective the recommended approaches have proven in the past technical work of similar complexity.

The contractor shall demonstrate an understanding of the work to be performed, and demonstrate the appropriate knowledge, capability (availability of appropriate staff, equipment, and resources), and ability to complete the tasks on time. Demonstrated understanding of the typical problems encountered in performing services required by the PWS and the ability to present practical, efficient solutions for those problems. The contractor's proposal shall include a clear, concise narrative that addresses each of the areas identified under the criteria.

### **Key Personnel (35 points)**

This criterion evaluates the technical qualifications (experience, expertise, and education) and availability of the proposed key personnel. The Contractor's proposal should describe the technical qualifications (experience, expertise, and education) and availability of the proposed Key Personnel as related to the tasks set forth in the PWS as follows:

- 1. <u>TMDL Watershed Modeler</u>: Specific qualifications should include past work experiences with models of similar complexity as West Virginia Department of Environmental Protection (WVDEP)'s Mining Data Analysis System (MDAS)<sup>1</sup> modeling framework. Provide examples which illustrate a detailed working knowledge and understanding of these types of models and other decision support tools, their management applications, and the underlying computer programming. (10 points)
- 2. TMDL Endpoint Development Expert: Specific qualifications should include past work experiences with interpreting a narrative water quality criterion into a scientifically defensible numeric TMDL endpoint(s) such as will be needed to address biological impairments caused by ionic toxicity or other pollutants. (15 points)
- 3. <u>Stakeholder Facilitation Expert</u>: Specific qualifications should include past work experiences facilitating decision making on complex technical issues with highly engaged stakeholders. (10 points)

# One individual should be proposed for each key personnel position identified above.

The information provided by the contractor should clearly establish the individual's educational achievements, specific past experience in performing similar projects to those anticipated under the solicitation, including relevant publications, specific role held by the proposed individual in projects cited, length of time he or she held that role, goals met and achievements in the role, and availability for effort on work anticipated herein, including commitment letters if not currently an employee of the prime or subcontractor.

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<sup>&</sup>lt;sup>1</sup> MDAS was developed specifically for TMDL application in West Virginia to facilitate large scale, data intensive watershed modeling applications. MDAS is based upon Hydrologic Simulation Program—FORTRAN (HSPF) but has no inherent limitations in terms of modeling size or upper limit of model operations. The dynamic watershed model component within MDAS is the Loading Simulation Program—C++ (LSPC) (Shen, et al., 2002). The model simulates nonpoint source flow and pollutant loading as well as instream flow and pollutant transport and is capable of representing time-variable point source contributions.

Note that individuals proposed as Key Personnel will be listed as such in the Task Order. At a minimum, provide the individual's resume (limited to 2 pages per individual) including the following items in a simple, systematic table format or listing:

- a. Name, Professional Level, Job Title, and Proposed Role under the contract.
- b. Percent of time available for the contract and commitment letter if not already an employee of the prime or subcontractor.
- c. Degree(s) held and corresponding field of study.
- d. \*Specific project experience related to the PWS area of responsibility.
- e. Job responsibility and goals met for project experience described in item d.
- f. Time dedicated to each project in item d.
- g. Beginning and ending dates of each project in item d.
- h. Current project commitments, including percent of time for each project, and duration of each project.

<sup>\*</sup> It is not sufficient to merely state that an individual worked on a project. EXPLAIN WHAT HE/SHE DID AND ITS RELEVANCE TO THE REQUIREMENTS OUTLINED IN THE PWS.

# COST PROPOSAL INSTRUCTIONS TASK ORDER SOLICITATION PR-OW-19-00484

The following paragraphs supplement the instructions set forth in the contract clause B-1 "Ordering Procedures". These instructions apply to the prime contractor as well as subcontractors and consultants. It is the prime contractor's responsibility to ensure that all instructions are disseminated to subcontractors and consultants.

Contractors shall submit a summary page for the base and any optional periods. The summary sheet shall be supplemented as necessary to provide thoroughness and clarity in the data presented. Pricing detail shall be included by task for the base and any optional periods. The cost breakdown supporting the above documents shall breakout the following elements: Direct Labor, including direct labor rate and hours for each proposed individual, Fringe Benefits, Overhead, ODC, Travel, Consultants, Subcontractors, Total Subcontract, Subtotal, G&A, Total Cost, Fee, Total Cost Plus Fee. This cost detail shall be broken out for the base and any optional periods, at the task level. A copy of the cost proposal shall be included in the submission in MS Excel. This copy shall include formulas used to arrive at the CPFF for the base and any optional periods in addition to the aggregate amount for each period.

When subcontract effort is included in the cost proposal, the prime contractor shall submit charts for each contract year and for the aggregate (all years, all hours) which clearly indicate the exact allocation of the specified level of effort among the prime contractor and the proposed subcontractors. Specified labor categories as well as job titles within the labor categories should be identified. Subcontractor detail may be provided by the subcontractor directly to the EPA.

If a proposed subcontractor does not have an approved accounting system (one that is considered adequate for use on Government cost-type contracts), the Contracting Officer's consent for a cost type (CPFF, etc.) subcontract will not be granted.

In the cost proposal, the contractor must certify that all proposed personnel (including proposed subcontractor personnel or consultants) for the Professional Level identified by the contractor meet the qualifications specified in the Contract at Attachment 3.